



# GasGuard™ 1500

## Extreme Polymer Concrete System

<b>GG-1501</b>	<b>Primer</b>
<b>GG-1502</b>	<b>Polymer Liner/Concrete</b>
<b>GG-1503</b>	<b>Surface Color</b>
<b>GG-1509</b>	<b>Hardener</b>

### Product Description

GasGuard 1500 is an extremely heavy-duty polymer concrete and lining system used in the highest corrosive concrete and steel environments where corrosion protection, strength and fast return-to-service times are essential. GasGuard 1500 uses the latest custom design in Vinyl Ester thermosetting resins to meet the demands of highly corrosive applications.

The GasGuard 1500 system is the result of over 30 years of R&D with protective coatings in corrosive environments and was designed to be a far superior lining solution to conventional surface coatings notorious for peeling and flaking. Using an ultra-low viscosity primer, GasGuard 1500 penetrates deep into porous substrates creating an extremely strong mechanical bond in addition to its chemical bonding properties.

With the addition of proprietary fillers and aggregates GasGuard 1500 creates an extremely heavy-duty polymer concrete with strength, adhesion, and corrosion resistance properties that far exceed typical concrete mixes.

### Recommended Uses

GasGuard 1500 is used as an extreme protective lining system over prepared concrete and steel surfaces in highly corrosive industrial and wastewater exposures. GasGuard 1500 can also be used as a replacement for traditional concrete in patching, structural repairs, and form & pour applications.

- Wastewater Treatment Plants
- Sugar and Citrus Plants
- Lift stations
- Manholes
- Inverts/filets
- Secondary containment areas
- Industrial and wastewater tanks
- Highly corrosive environments
- Pedestals/mounting pads
- Concrete repairs

### Product Characteristics

<b>Finish:</b>	<b>Semi-gloss</b>
<b>Color:</b>	<b>Orange (custom colors upon request)</b>
<b>Volume Solids:</b>	<b>100%</b>
<b>Dry mils:</b>	<b>135 – no maximum</b>

### Typical Properties

<b>Primer Viscosity @ 77°F 250-350 cPs</b>		<b>Brookfield LV3</b>
<b>Flexural Strength</b>	<b>22,015 psi</b>	<b>ASTM D790</b>
<b>Flexural Modulus</b>	<b>5.1 x 10<sup>5</sup> psi</b>	<b>ASTM D790</b>
<b>Tensile Strength</b>	<b>22,022 psi</b>	<b>ASTM D638</b>
<b>Tensile Modulus</b>	<b>4.6 x 10<sup>5</sup> psi</b>	<b>ASTM D638</b>
<b>Tensile Elongation</b>	<b>6.2%</b>	<b>ASTM D638</b>
<b>Barcol Hardness</b>	<b>39</b>	<b>ASTM D2583</b>
<b>Heat Distortion</b>	<b>243° F</b>	<b>ASTM D648</b>

### **Drying Schedule 100grams @ 77° F**

<b>Gel time:</b>	<b>24-28 minutes</b>
<b>Gel to peak:</b>	<b>12-25 minutes</b>
<b>Recoat:</b>	<b>1-hour minimum</b>
<b>Return to service:</b>	<b>1-2 hours</b>
<b>Full cure:</b>	<b>6 hours</b>

### **Surface Preparation**

**Abrasive blasting is recommended for surface prep. Surface must be clean, dry and in sound condition before applying. Remove all oil, dust, grease, dirt and loose material to provide adequate adhesion.**

**Iron & Steel minimum surface preparation:**

**Atmospheric: SSPC-SP6/NACE 3**  
**Immersion: SSPC-SP10/NACE 2**

**Concrete & Masonry minimum surface preparation:**

**Atmospheric/Immersion: SSPC-SP13/NACE 6 (new concrete should be 28 days old or pH tested for full cure prior to application)**

### **Application Guidelines**

**For GasGuard Certified Applicators only, see [www.GasGuardLinings.com](http://www.GasGuardLinings.com) for current list of applicators.**

<b>Temperature:</b>	<b>38°F to 150°F</b>
<b>Cleanup:</b>	<b>Acetone</b>
<b>Equipment:</b>	<b>Casted, poured, troweled, sprayed</b>
<b>Minimum thickness:</b>	<b>135 mils</b>
<b>Maximum thickness</b>	<b>4-inch lifts, no maximum</b>

### **Corrosion Data**

**See GasGuard 1500 Corrosion Results Guide for specific chemical resistance data.**

### **Safety Information**

**See Resin SDS sheet before use.**

### **Warranty Information**

**When installed by a Certified Applicator, GasGuard 1500 is backed by a 10 – Year Material Warranty**

**Florida Approved Applicator:**

**Restoration  
& Protective  
Solutions**